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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/592,009	06/12/2000	Sherman Lee	M-8815 US	4198
23363	7590	05/23/2006	EXAMINER	
CHRISTIE, PARKER & HALE, LLP			NGUYEN, TANH Q	
PO BOX 7068			ART UNIT	PAPER NUMBER
PASADENA, CA 91109-7068			2182	

DATE MAILED: 05/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	09/592,009	LEE ET AL.
	<b>Examiner</b> Tanh Q. Nguyen	<b>Art Unit</b> 2182

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

**WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION:**

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

1)  Responsive to communication(s) filed on 31 January 2006 (RCE).

2a)  This action is **FINAL**.                            2b)  This action is non-final.

3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

4)  Claim(s) 1-13 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5)  Claim(s) \_\_\_\_\_ is/are allowed.

6)  Claim(s) 1-13 is/are rejected.

7)  Claim(s) \_\_\_\_\_ is/are objected to.

8)  Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

9)  The specification is objected to by the Examiner.

10)  The drawing(s) filed on 02 December 2005 is/are: a)  accepted or b)  objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a)  All    b)  Some \* c)  None of:  
1.  Certified copies of the priority documents have been received.  
2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

1)  Notice of References Cited (PTO-892)  
2)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3)  Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 01/31/06

4)  Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.

5)  Notice of Informal Patent Application (PTO-152)

6)  Other: \_\_\_\_\_

## **DETAILED ACTION**

### ***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on January 31, 2006 has been entered.

### ***Oath/Declaration***

2. The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application, by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration is defective because it does not identify the mailing address of each inventor. A mailing address is an address at which an inventor customarily receives his or her mail and may be either a home or business address. The mailing address should include the ZIP Code designation. The mailing address may be provided in an application data sheet or a supplemental oath or declaration. See 37 CFR 1.63(c) and 37 CFR 1.76.

### ***Claim Objections***

3. Claim 6 is objected to because of the following informalities: "accessing context data" in line 2 should be replaced with "accessing context data in a second register" to

be in concordance with line 4 of the claim.

***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 1-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Maupin et al. (USP 6,154,832).

7. As per claim 1, Maupin teaches a method for performing a context switch operation, comprising:

accessing context data in a first register [a first one of 46A-46H, FIG. 2] of a peripheral system [embedded controller 10, FIG. 1] when a context index register [42,

FIG. 2] is set to a first index value [col. 6, lines 20-29];  
receiving by the peripheral system a second index value from an external  
interrupt source associated with the peripheral system [col. 6, lines 20-29];  
setting the context index register to the second index value to perform a context  
switch by accessing context data in a second register [a second one of 46A-46H, FIG.  
2] of the peripheral system when the context index register is set to the second index  
value [FIG. 5; col. 7, line 63-col. 8, line 8].

Maupin, therefore teaches the invention except for the external interrupt source  
being a host computer. Since it was known in the art at the time the invention was  
made for an interrupt source of an embedded controller to be a host computer in order  
to allow the host computer to request service from the embedded controller, it would  
have been obvious to one of ordinary skill in the art at the time the invention was made  
for the interrupt source of the peripheral system to be a host computer in order to allow  
the host computer to request service from the peripheral system.

8. As per claim 2, Maupin does not teach context data including a device address  
for a network device, a class value, a clock offset value and an active member address.  
Such context data are traditionally associated with communications in a Bluetooth  
environment.

Maupin in essence teaches reducing or eliminating the need for context save and  
restore when performing context switch operations - by using register sets, each of  
which being dedicated to a particular context [col. 4, lines 24-36]. Maupin, however,  
does not teach a Bluetooth environment.

Since it was known in the art at the time the invention was made that traditional context switch operations in a Bluetooth environment require substantial context save and restore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate registers, each of which being dedicated to a particular context (as is taught by Maupin) in a Bluetooth environment - in order to reduce and/or eliminate context save and restore when performing context switch operations in such environment (hence context data in such environment including a device address for a network device, a class value, a clock offset value and an active member address)

9. As per claims 3-6, Maupin teaches each register being dedicated to a task corresponding to an interrupt source [col. 4, lines 24-28], hence teaches accessing context data comprising receiving by the peripheral system an address value that identifies an address within the register, control input identifying read/write functions, and data value to write the data value to the register for a write function, or to provide the contents of the register to the interrupt source for a read function - as read/write interrupts are known to include address, read/write functions and data value for write functions.

10. As per claim 7, Maupin teaches the registers [46A-46H, FIG. 2] being dedicated to particular contexts - hence the first and second registers not being architected registers.

11. As per claim 8, Maupin teaches a system [FIG. 1] comprising:  
a peripheral system [10, FIG. 1] coupled to an interrupt source, the peripheral

system including a first register and a second register, the first register being associated with a first index value and the second register being associated with a second index value [see rejection of claim 1 above];

an interface [14, FIG. 1] coupled to the interrupt source and to the peripheral system, the interface being configured to provide first and second index values from the interrupt source to the peripheral system [col. 4, lines 24-28]; and

a register access circuit [40, 42, FIG. 2] coupled to the interrupt source, the register access circuit being configured to access context data in the first register if the first index value is provided by the interrupt source, and the register access circuit being configured to access context data in the second register if the second index value is provided by the interrupt source [see rejection of claim 1 above],

wherein the peripheral system includes a context index register [42, FIG. 2] for storing the first and second index values [see rejection of claim 1 above].

Maupin, therefore teaches the invention except for the external interrupt source being a host computer including a microprocessor. Since it was known in the art at the time the invention was made for an interrupt source of an embedded controller to be a host computer (that inherently includes a microprocessor) in order to allow the host computer to request service from the embedded controller, it would have been obvious to one of ordinary skill in the art at the time the invention was made for the interrupt source of the peripheral system to be a host computer in order to allow the host computer to request service from the peripheral system.

12. As per claims 9-13, Maupin teaches the registers [46A-46H, FIG. 2] being

dedicated to particular contexts - hence the first and second registers not being architected registers;

the peripheral system including a state machine module [40, 42, 44, FIG. 2] that includes an address portion, a control portion, and a data portion (execution core 40 inherently comprising address portion, control portion and data portion), the data portion including the first and second registers [46A-46H included in register file 44, FIG. 2];

the peripheral system including a microprocessor [12, FIG. 1];

the address portion comprising the register access circuit [40, 42, FIG. 2];

the peripheral system including a plurality of context registers, wherein each of the plurality of context registers is associated with one of a plurality of index values other than the first and second index values [8 register sets 46A-46H corresponding to 8 index values].

### ***Double Patenting***

13. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to

be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

14. Claims 1-13 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1, 4-5 of copending Application No. 11/314,036 in view of Maupin.

As per claims 1, 8, 13, claims 1, 5 of the copending application claim all the limitations of the claims except for a context index register for setting the index values. Maupin teaches a context index register for setting a value identifying a new context in a context switch operation. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use a context index register, as is taught by Maupin, in order to identify a new context in a context switch operation.

As per claims 2-6, claim 5 of the copending application claims a Bluetooth network and communications in a Bluetooth network, hence the context data of claim 2, and accessing the context data of claims 3-6.

As per claims 7, 9, claim 4 of the copending application claims non-architected registers.

As per claims 10-12, claim 5 of the copending application claims a host controller, hence a state machine, a microprocessor and a register access circuit in the host controller.

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

***Response to Arguments***

15. Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

***Conclusion***

16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tanh Quang Nguyen whose telephone number is (571) 272-4154 and whose e-mail address is tanh.nguyen36@uspto.gov. The examiner can normally be reached on Monday-Friday from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Huynh, can be reached on (571) 272-4147. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300 for After Final, Official, and Customer Services, or (571) 273-4154 for Draft to the Examiner (please label "PROPOSED" or "DRAFT").

Effective May 1, 2003 are new mailing address is:

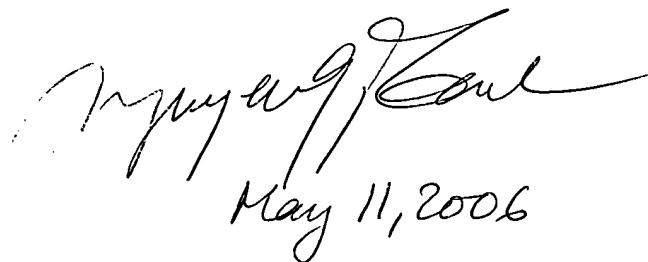
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A handwritten signature in black ink, appearing to read "T. Q. Nguyen".

May 11, 2006

TQN  
May 11, 2006